VECTOR
The Freedom of POWER

VEC137Y

1,000,000 CANDLE POWER
CORDED-CORDLESS RECHARGEABLE SPOTLIGHT
WITH BUILT-IN STAND AND AREA UTILITY LIGHT

OWNER'S MANUAL & WARRANTY INFORMATION

THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING SAFETY, OPERATION, MAINTENANCE AND STORAGE OF THIS PRODUCT. BEFORE USING, READ AND UNDERSTAND ALL CAUTIONS, WARNINGS, INSTRUCTIONS AND PRODUCT LABELS, PLUS YOUR VEHICLE'S BATTERY MANUFACTURER GUIDELINES. FAILURE TO DO SO COULD RESULT IN INJURY AND/OR PROPERTY DAMAGE.

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IMPORTANT SAFETY INSTRUCTIONS

READ AND UNDERSTAND BEFORE OPERATING SPOTLIGHT

WARNINGS:

1. Do not substitute power cords or adapters. Only recharge with supplied AC and DC recharge adapters. Recharge adapters for this unit supply 12 volts DC. **Do not recharge with any adapters other than the adapters supplied with this unit.**
2. Do not submerge in water. This unit is not waterproof - it is water resistant.
3. Do not overcharge battery.
4. Do not operate spotlight while recharging. This will prevent battery recharge and overheat the charging adapters.
5. Lens gets very hot when spotlight is operating. Do not touch lens - keep children away from spotlight. This is not a toy!
6. Keep combustibles away from spotlight lens - extreme heat can cause fires.
7. Keep sharp objects away from lens - it is glass and can break.
8. Do not drop or throw spotlight, it contains glass and a sealed lead acid battery.
9. Dispose of unusable batteries in a responsible manner. See battery disposal section.
10. Make sure, that during recharge, all cords are protected from any type of damage.
11. Do not crush, cut, pull or expose recharge adapter cords to extreme heat.
12. Keep recharge cords away from sharp edges. Position recharge cords so that they do not become entangled or become a safety hazard.

CAUTION: Do not allow the battery to completely discharge. When spotlight dims, turn it off. Use area light if necessary.

INTRODUCTION

Congratulations on purchasing the Vector spotlight, an advanced design combination spotlight and area light. It instantly converts use from a powerful spotlight to a soft, long-lasting area light. It uses a powerful, proven-technology, rechargeable, non-spillable, sealed lead acid battery that allows for years of dependable use, recharge after recharge. It was designed from the ground up to be the most versatile and practical light for travel, camping, picnicking, tailgate parties, and boating. The spotlight gives you the kind of light you need, when and where you need it.

Two recharge adapters are supplied with the spotlight. It is rechargeable from either a 12 volt DC socket (accessory socket) or from any 110/120 volt 60 Hz AC receptacle. This permits recharge flexibility for use around home, business or in the field. 12 volt DC power is available from most vehicles, boats, jump starters and portable battery packs. Vector has a variety of portable power products that would make ideal companions.

1. FEATURES

- Recharges from 12 volt DC accessory socket using DC adapter.
- Corded function allows for 12 volt corded use while charging.
- Small, swivel "eyeball" area light provides up to 15 hours of operation.
- Powerful, prefocused, replaceable quartz halogen bulb in spotlight.
- Rubber safety guard (bezel) protects spotlight.
- Recharges from North American Standard 110 VAC, 60 Hz, receptacle.
- Three-way power switch - spotlight, off and area light.
- Comfortable folding, locking 90° pistol grip.
- Adjustable, folding stand provides stability on tabletops and other flat surfaces.

NOTE: This unit is shipped in a partially charged state. Initially charge unit using the AC charger for 15 hours. Charge after each use.

FIGURE 1

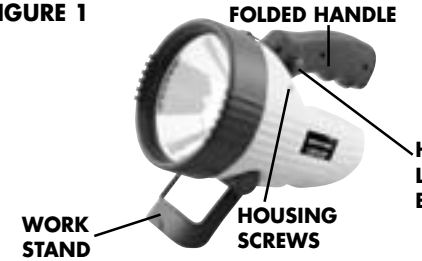
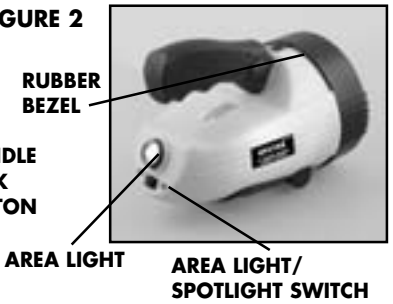


FIGURE 2



2. OPERATION

A three-position switch (spotlight, off, area light) controls on/off operation of both lights. The spotlight can be continuously lit for up to 25 minutes on a full battery charge, the area light can be lit for up to 15 hours on a full battery charge. The unit may be operated during DC recharge. Figure 1 shows locations of the handle, handle lock button and adjustable stand. Figure 2, rear view, shows spotlight/off/area light switch and area light.

The handle rotates ninety degrees and locks in two different positions. The handle is released from either locked position by pressing on the handle lock button (located near two handle screws) and rotating the handle to the new position. When the handle is close to the body of the light (folded) the spotlight is carried with the weight of the unit below the handle. When the handle is rotated to be perpendicular to the body of the unit, the unit is carried pistol style, with the units weight on top. It is your choice of operating positions, depending on your needs and comfort.

FIGURE 3

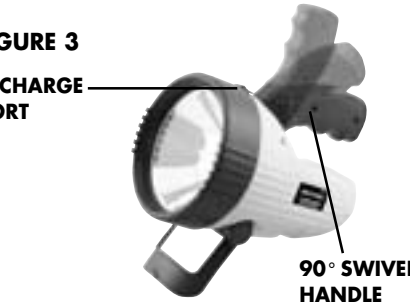
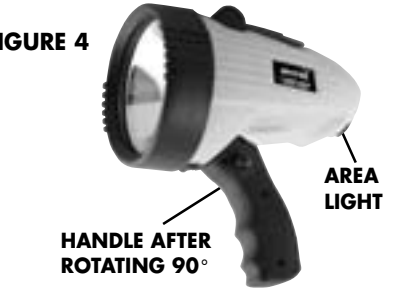


FIGURE 4



CORDLESS OPERATION:

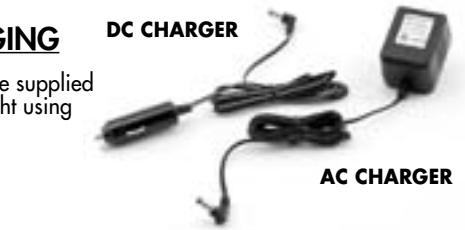
Charging or operating with 12 volt DC adapter - Plug the DC fused recharge/power adapter (included) into the barrel receptacle on the back of the spotlight body, and then insert the plug into the socket of your vehicle or other 12 volt DC power source. Make sure the locking trigger switch is in the OFF position. Allow approximately 3–5 hours charging time if volt DC the engine is running. You may use the spotlight while its internal battery is recharging.

Spotlight can operate directly with a DC power cord - Operation from external 12 volt DC source with at least 10 amp capacity will allow for area light or spotlight operation and internal battery to charge simultaneously.

3. CHARGING/RECHARGING

AC and DC recharge requires use of these supplied recharge adapters. Do not charge spotlight using any other adapters. See figure 5.

FIGURE 5



AC RECHARGE

Make sure that the AC source is 110/120 volts, 60 Hz.

WARNING: Use the supplied AC recharge adapter; do not substitute with any other. Do not operate during AC recharge.

AC recharge requires the use of the supplied AC recharge adapter that supplies12 volts DC.

1. Lift the rubber plug from the recharge port. (See Figure 3) It is there to keep out dust and moisture.
2. Connect the AC charger to an AC source. (See Figure 5)
3. Plug the adapter's barrel connecter into the recharge port located near the handle.
4. Recharge for 15 hours.
5. After recharge, disconnect the barrel connector from the recharge port and store the adapter.
6. Replace the rubber plug in the recharge port.

DC RECHARGE

Make sure the DC source (jump starter, battery pack, vehicle accessory socket, etc) is 12 volts DC. The DC source should be able to supply at least 10 Amps at 12 volt DC, if you plan to operate the spotlight.

WARNING: Use the supplied DC recharge adapter; do not substitute.

DC recharge requires the use of the supplied DC recharge adapter. Do not substitute with any other.
1. Move the rubber plug from the recharge port. It is there to keep out dust and moisture.
2. Connect the DC recharge adapter's large 12 volt DC type plug to a 12 volt DC source.
3. Plug the adapter's barrel connecter into the recharge port located near the handle.
4. Recharge for 8–10 hours maximum (if engine is running 3 to 4 hours).
5. After recharge, disconnect the barrel connector from the recharge port and store the adapter.
6. Replace the rubber plug in the recharge port.

DC OPERATION AND RECHARGE

You may operate the spotlight or area light directly from any 12 volt DC external power source supplying at least 10 amp capacity. The internal battery will be recharged while operating the spotlight or area light from external DC power source.

4. PERIODIC MAINTENANCE

All batteries lose charge over time, especially when they are warm. AC recharge is recommended every two months, when not in frequent use. Use the AC recharger and charge for the recommended time. If the unit is dirty, gently clean the outer surfaces with a soft cloth moistened with a mild solution of water and detergent. Periodically inspect the condition of recharge adapters, connectors, and wires. Replace any components that may have become worn or broken.

5. PARTS REPLACEMENT

Three parts are replaceable by users. The quartz halogen bulb and sealed lead acid battery are proprietary and are available through Vector Manufacturing. A substitute 12 volt H3 55 watt bulb may be used instead of a Vector bulb. These can be purchased from popular automotive parts suppliers nationwide. The DC charging adapter fuse is replaceable. Contact Vector Manufacturing's technical support department for replacement parts and any additional information that you may need. They can be reached at (954) 584-4446 or toll free at (866) 584-5504.

DC PLUG FUSE REPLACEMENT:

The fuse in the DC plug protects the charging circuit of the DC recharge adapter. This fuse may blow if the spotlight is operated when the DC recharge adapter is powered and the DC cord is connected to the recharge port. During DC recharge, if there is no slight warming of the DC plug, you should suspect that 12 volts DC is not powering the plug or the fuse is opened.

To replace the fuse:
1. Unscrew the end cap of the DC plug. (counterclockwise)
2. Remove spring center contact and fuse.
3. Check fuse with a continuity checker.
4. If blown, locate replacement fuse with same type and rating.
5. Replace the fuse, spring, contact, and end-cap.
6. Screw end-cap clockwise until it is finger tight -DO NOT OVERTIGHTEN
7. Check for proper operation of DC charger adapter.

SPOTLIGHT BULB REPLACEMENT:

To replace the H3 type 12 volt bulb, you will need a small Phillips type screwdriver and a replacement bulb. Bulb life can be shortened by installing a bulb with dirt or fingerprints on it. The bulb can be wiped clean with a cloth moistened with alcohol. During bulb installation, avoid touching the glass part of the bulb. See Figure 6 and 6B for details.
1. Disconnect the unit from any charging adapters.
2. Lift up the recharge port plug from the recharge port.
3. Pull off the rubber bezel to reveal two small Phillips screws.
4. Using the screwdriver, remove (counter clockwise) the two screws; set them aside.
5. Lift off the retaining ring, glass, and rubber ring and set them aside.
6. Carefully remove the reflector and bulb assembly.
7. Disconnect the bulb wire from the red power wire and set the burned out bulb aside.
8. Unsnap the hairpin retaining wires from the reflector's flange.
9. Using the screwdriver, loosen the retaining screw to remove the bulb from the reflector (no need to completely remove this screw).
10. Lift out the bulb and the attached wire.
11. Insert the replacement bulb into the reflector's flange.
12. Put back and secure the hairpin retaining wires.
13. Connect the bulb power wire to the red power wire.
14. Tighten the retaining screw on the flange.
15. Place the reflector in position in the body of the spotlight.
16. Replace the rubber "O" ring in the groove around the perimeter of the reflector.
17. Replace glass and retaining ring so that the screw holes are aligned.
18. Secure retaining ring with two screws.
19. Replace rubber bezel so that recharge port plug can plug into the recharge port.
20. Operate switch to ensure proper operation of spotlight.

FIGURE 6

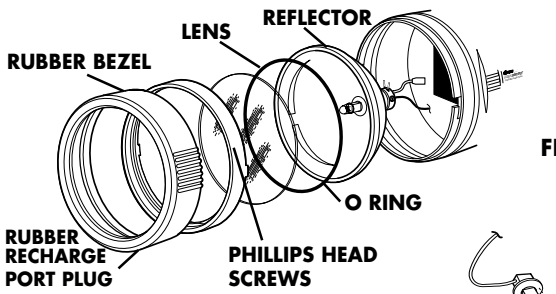
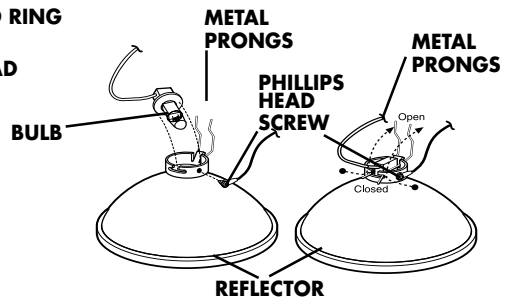


FIGURE 6B



REPLACING THE BATTERY PACK:

The sealed lead acid battery has a life of several years, if recharged promptly after each use. When a fully charged battery only provides about ten minutes or less of spotlight operation, it should be replaced with a new one. To replace the battery, you will need a narrow shaft Phillips type screwdriver and a replacement battery. The battery pack can be replaced by doing the following:

1. Complete the bulb replacement through step 5 to remove the reflector assembly.
2. Remove the three Phillips screws (clockwise) that fasten the two halves of the housing body. See Figure 1 for locations.
3. Separate the two body halves and carefully pop out the handle, stand, and recharge port assemblies.

WARNING: DO NOT ALLOW BARE WIRES OR CONNECTORS TO CONTACT EACH OTHER; DANGEROUS SPARKING CAN OCCUR

4. Note polarity of battery. Note which color wire is on which terminal.
5. Disconnect the wires from the battery and set the battery aside.
6. Connect the replacement battery, making sure the correct color wires are on the new battery terminals. Make sure POS (+) is red and NEG (-) is black.

CAUTION: Incorrectly connected wires will allow the spotlight to operate normally but when recharge adapters are connected, there will be damage to the battery and recharge adapters. Double check battery polarity before reassembly!

7. Replace handle, stand, and recharge port assemblies in one half of the housing body. Make sure wires and connectors do not touch.
8. Place other half of housing body into position and replace three Phillips screws (clockwise). Do not overtighten.
9. Follow steps 14 through 20 for bulb replacement to reassemble reflector, rubber "O" ring, glass, retaining ring, and rubber bezel. Charge the new battery using AC recharge adapter for a minimum of 12 hours initially, then seven hours thereafter.

SAFE BATTERY DISPOSAL:

Contains a maintenance-free, sealed, non-spillable, lead acid battery, which must be disposed of properly. Recycling is required, contact your local authority for information. Failure to comply with local, state and federal regulations can result in fines, or imprisonment.

Battery Disposal Warnings:

- Do not dispose of the battery in fire as this may result in an explosion.
- Before disposing of the battery, protect exposed terminals with heavy-duty electrical tape to prevent shorting (shorting can result in injury or fire).
- Do not expose battery to fire or intense heat as it may explode.
- For more information on recycling this battery, call toll-free (877) 288-7722.

6. SPECIFICATIONS

Spotlight Bulb ..... 12 volt, H3 series
Battery ..... Maintenance free, sealed lead acid, 12 volt, 3 Amp Hour
Weight ..... 3 lbs 2 oz (1.5 kg)
Length ..... 8.5 in (21.6 cm)
Width ..... 6.0 in (15.3 cm)
Height (folded) ..... 6.5 in. (16.5 cm)

All Vector Manufacturing, Ltd. products must be registered within (30) days of purchase to activate this warranty. Mail the completed registration form, along with a copy of the original sales receipt to:

ONE YEAR LIMITED WARRANTY REGISTRATION FORM

This Vector Manufacturing, Ltd. product is warranted, to the original purchaser only, to be free of defects in materials and workmanship for one year from the date of purchase without additional charge. In no event will Vector Manufacturing, Ltd. be responsible for any amount of damages beyond the retail purchase price of the product. All Vector Manufacturing, Ltd. products must be registered within 10 days of purchase. To activate this warranty, mail the completed registration form along with a copy of the original sales receipt to the address shown below.

RETURN/REPAIR POLICY: Defective products, other than accessories, may be returned postage prepaid to Vector Manufacturing. Any defective product, other than accessories, that is returned to Vector Manufacturing within 30 days of the date of purchase will be replaced free of charge. If such a product is returned more than 30 days but less than one year from the purchase date, Vector Manufacturing will repair the unit or, at its option, replace it free of charge.

LIMITATIONS: This warranty does not cover accessories, bulbs, fuses and batteries, defects resulting from normal wear and tear (including chips, scratches, abrasions, discoloration or fading due to usage or exposure to sunlight), accidents, damage during shipping to our service facility, alterations, unauthorized use or repair, neglect, misuse, abuse, failure to follow instructions for care and maintenance, fire, flood, and Acts of God. This product is not warranted for commercial use.

If your problem is not covered by this warranty, call our technical support department at (954) 584-4446 for general repair information and charges if applicable.

STATE LAW RIGHTS: This warranty gives you specific legal rights. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the exclusions or limitations stated herein may not apply. This warranty gives the purchaser specific legal rights; other rights, which vary from state to state, may apply.

TO REQUEST WARRANTY SERVICE FOR THIS PRODUCT: Contact Vector Manufacturing technical support by telephone, fax or mail. We suggest that you keep the original packaging in case you need to ship the unit. When returning a product, include your name, address, phone number, dated sales receipt (or copy), and a description of the reason for return and product serial number. After replacing the unit, we will return it to you within four weeks.

All Vector Manufacturing, Ltd. products must be registered within 10 days of purchase to activate this warranty. Mail the completed registration form, along with a copy of the original sales receipt to:

❒ Please activate my Limited Warranty for Model #137Y. I have enclosed a copy of my original sales receipt.

Name _____ Street Address _____

City _____ State _____ Zip Code _____

Phone _____ Fax _____ E-mail _____

Store where purchased _____

UPC Number from package (12 digits) _____

All Vector Manufacturing, Ltd. products must be registered within 10 days of purchase to activate this warranty.
Mail the completed registration form, along with a copy of the original sales receipt to:

ATTN.: CUSTOMER SERVICE / VECTOR MANUFACTURING, Ltd.
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You may also contact us at our web site **www.vectormfg.com**

WARRANTY IS NON-TRANSFERABLE AND NON-REFUNDABLE.

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FT. LAUDERDALE, FL 33312 MADE IN CHINA